

## ABSTRACT

The present invention has for its object to isolate a gene coding for the enzyme synthesizing the coenzyme  $Q_{10}$  side chain from a fungal strain of the genus Saitoella and exploit it to advantage for the efficient microbial production of coenzyme  $Q_{10}$ .

The present invention provides;  
a DNA having the nucleotide sequence shown under SEQ ID  
10 NO:1

a DNA having a nucleotide sequence derived from the nucleotide sequence of SEQ ID NO:1 by the deletion, addition, insertion and/or substitution of one or a plurality of nucleotides

15 and coding for a protein having decaprenyl diphosphate synthase activity

a DNA which hybridizes with the DNA having the nucleotide sequence of SEQ ID NO:1 under a stringent condition

and codes for a protein having decaprenyl diphosphate  
20 synthase activity.